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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

Attorney Docket No.	PA125
First Inventor	Rosen et al.
Title	Nucleic Acids, Proteins, and Antibodies
Express Mail Label No.	

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.

3. ☒ Specification [Total Pages 561]

(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the invention
- Brief Summary of the invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claims
- Abstract of the Disclosure

4. ☐ Drawing(s) (35 U.S.C. 113) [Total Sheets]

5. ☒ Oath or Declaration [Total Pages 5]

- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)

c. ☐ **DELETION OF INVENTOR(S)**

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)

6. ☒ Application Data Sheet. See 37 CFR 1.76. (13 pages).

The entire disclosure of all applications claimed for priority on the Application Data Sheet are considered a part of the disclosure of the present application and are hereby incorporated by reference in their entirety.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program

8. Nucleotide and/or Amino Acid Sequence Submission

(if applicable, all necessary)

- a. ☒ Computer Readable Form (CRF)

- b. Specification Sequence Listing on:

- i. ☒ CD-ROM or CD-R (2 copies); or
- ii ☐ paper

- c. ☒ Statement under 1.821 verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet and document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement/ Form PTO/SB/08
☐ Copies of Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(should be specifically itemized)
15. ☐ Certified copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other:

- a. Transmittal and Submission Under 37 CFR §§ 1.824 and 1.52(e).

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76.

☐ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) of prior application No. /

Prior application information: Examiner Group/Art Unit:

For CONTINUATION OR DIVISIONAL APPS only. The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts

18. CORRESPONDENCE ADDRESS

- ☒ Customer Number or Bar Code Label

22195or ☐ Correspondence address below

NAME

ADDRESS

CITY

STATE

ZIP CODE

COUNTRY

TELEPHONE

FAX

NAME (Print/Type)

Kenley K. Hoover

Registration No. (Attorney/Agent)

40,302

SIGNATURE

Kenley K. Hoover

Date

11/7/2001

Barcodes: This form is intended to be filed 0-2 hours to complete. Time will vary depending upon the needs of the information. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SIGNIFY FILES OR COMPLETED FORMS TO TITLS

STANDARD SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

PTO/SB/05

FEE TRANSMITTAL

for FY 2001

Patent fees are subject to annual revision.

Complete if Known

Application Number
Filing Date
First Named Inventor
Examiner Name
Group Art Unit
Attorney Docket Number

Unassigned
Herewith
Rosen et al.
Unassigned
Unassigned
PA125

Total amount of payment (\$)**902.00**

METHOD OF PAYMENT (CHECK ONE)

☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:
Deposit Account Number **08-3425**
Deposit Account **Human Genome Sciences, Inc.**
Name

☒ Charge Any Additional Fee Required
Under 37 CFR §§ 1.16 and 1.17

☐ Applicant claims small entity status

See 37 CFR 1.27

☐ Payment Enclosed:
☐ Check ☐ Credit Card ☐ Money Order ☒ Other
*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 08-3425

FEE CALCULATION

1. BASIC FILING FEE					
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	710
105	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	
Subtotal (1)					\$710

2. EXTRA CLAIM FEES

		Extra		Fee from below	Fee Paid
Total claims	24	- 20**	4	18	\$72.00
Indep. claims	4	- 3**	1	80	\$ 8.00
Multiple Dependent					5

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim
108	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

Subtotal (2) (\$)**152.00**

Submitted By

Name (Print/Type) Kenley K. Hoover

Signature: *Kenley K. Hoover*

Registration No.: 40,302

Telephone 301-610-5771

Date 11/17/2001

FEE CALCULATION (CONTINUED)

3. ADDITIONAL FEES		Fee Paid	
Large Entity Fee Code	Small Entity Fee Code	Fee Description	
105	130	205	65
127	50	227	25
139	130	139	130
147	2,520	147	2,520
112	920	112	920
113	1,840	113	1,840
115	110	215	55
116	390	216	195
117	890	217	445
118	1,390	218	695
118	1,890	228	945
119	310	219	155
120	310	220	155
121	270	221	135
138	1,510	138	1,510
140	110	240	55
141	1,240	241	620
142	1,240	242	620
143	440	243	220
144	600	244	300
122	130	122	130
123	50	123	50
126	240	126	240
581	40	481	40
146	710	246	355
149	710	249	355
179	710	279	355
169	190	169	900

Other fee (specify)

Other fee (specify)

*Reduced by Basic Filing Fee Paid

Subtotal (3)

\$ 40.00

Complete (if applicable)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Rosen et al.

Application Serial No.: Unassigned

Group Art Unit: Unassigned

Filed: Herewith

Examiner: Unassigned

For: Nucleic Acids, Proteins, and Antibodies

Attorney Docket No.: PA125

**TRANSMITTAL AND SUBMISSION UNDER
37 C.F.R. §§ 1.824 and 1.52(e)**

Commissioner For Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.821(e) and 1.824, Applicants submit herewith a Sequence Listing satisfying the computer readable format requirements on a compact disc (CD-R) labeled "CRF." Applicants submit concurrently herewith a Statement Under 37 C.F.R. § 1.821.

Additionally, in accordance with 37 C.F.R. §§ 1.52(e), 1.821, and 1.823, Applicants submit herewith a Sequence Listing as an electronic document on two identical compact discs (CD-R). Applicants certify under 37 C.F.R. § 1.52(e)(4) that these two compact discs, labeled "Copy 1" and "Copy 2," are identical. These compact discs, formatted for an IBM-PC machine and compatible with the MS-Windows operating system, contain the following files:

Document	File Name	Size in bytes	Date of Creation
Sequence Listing	PA125_seqListing.txt	1,562,087	01/16/2001
V Viewer Setup File	SetupDLL.exe	695,808	12/19/2000
V Viewer Help File Controller	v.cnt	7,984	01/05/2001
V Viewer Program File	v.exe	753,664	12/19/2000
V Viewer Help File	v.hlp	447,766	01/05/2001

Pursuant to 37 C.F.R. § 1.52(e)(3)(ii), Applicants note that the Sequence Listing may be viewed on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, licensed by HGS, Inc., included on the compact discs (see World Wide Web URL: <http://www.fileviewer.com>). To use the V viewer, the SetupDLL.exe file must first be executed to install required files. The V viewer can then be

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opened by executing the v.exe file from the compact disc. Once open, the V viewer can be used to open and view the Sequence Listing and Tables from the compact disc. Further instructions for use of the V viewer may be obtained using the Help function from within the V viewer software.

Date: June 7, 2001

Respectfully submitted,
Michael L. Hoover (Reg. No. 40,302)

Kenley K. Hoover (Reg. No. 40,302)
Attorney for Applicants

Human Genome Sciences, Inc.
9410 Key West Avenue
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KKH/mjh
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Rosen et al.

Application Serial No.: Unassigned

Group Art Unit: Unassigned

Filed: Herewith

Examiner: Unassigned

For: Nucleic Acids, Proteins, and Antibodies

Attorney Docket No.: PA125

STATEMENT UNDER 37 C.F.R. § 1.821

Assistant Commissioner For Patents
Washington, D.C. 20231

Sir:

Applicants hereby certify under 37 C.F.R. § 1.821(f), that the content of the sequence listing information recorded in computer-readable form submitted herewith on compact disc (CD-R) is identical to the written (on compact disc (CD-R)) sequence listing.

Respectfully submitted,

John K. Hoover (Reg No 43,975)

Date: *Jan 17, 2001*

for

Kenley K. Hoover
Agent for Applicants

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KKH/ur
Enclosures

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